

ABSTRACT OF THE DISCLOSURE

A cellular network infrastructure has radio network controllers and fixed transceivers serving respective cells. The proposed method of controlling radio resources assigned to a communication between a mobile terminal and such infrastructure comprises measuring parameters of respective propagation channels between the mobile terminal and a number of fixed transceivers. Report messages indicating at least some of the measured parameters are transmitted to the radio network controller to be processed. The measured parameters indicated in the report messages for at least one fixed transceiver include data representing a time variability of a power level received on the channel between the mobile terminal and this fixed transceiver.